



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Hamilton Safe Company
3143 Production Drive
Fairfield, OH 45014

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.-

DESCRIPTION: Series "UL 752 Bullet Resistant Drive-Up" Stainless Steel Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W05-47**, titled "Bullet Resistant Drive-Up Steel Fixed Wdw. (L.M.I.)", sheets 1 through 4 of 4, dated 09/16/05, with revision **C** dated 05/11/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

- LIMITATION:**
1. The minimum Stainless Steel Alloy SS 304 (36 Ksi) per test reports;
 2. The steel strength of the frame sill shall be minimum 14 Gage (0.082-inch);
 3. The steel strength of the mullion shall be minimum 11 Gage (0.125-inch).

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **12-0612.23** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
6/20/16

NOA No. 16-0114.07
Expiration Date: April 06, 2017
Approval Date: June 30, 2016
Page 1

Hamilton Safe Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 05-1122.12)
2. Drawing No. **W05-47**, titled "Bullet Resistant Drive-Up Steel Fixed Wdw. (L.M.I.)", sheets 1 through 4 of 4, dated 09/16/05, with revision **C** dated 05/11/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a Bullet Resistant Drive-Up Steel Fixed Window (L.M.I.), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4690**, dated 08/18/05 signed and sealed by Edmundo J. Largaespada, P.E. and addendum letter, dated 06/04/12, signed by Manny Sanchez.
(Submitted under NOA No. 05-1122.12)

C. CALCULATIONS


1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 05/10/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Test Report No. **BP5734**, volume 1 and section 4, prepared by Underwriting Laboratories, Inc., dated 11/21/88, revised and dated 11/01/93, issued to Hamilton Safe Company, for their "**Bullet Resisting Devices, Miscellaneous Window Frame, Ballistic Level 1**" "per **ANSI/ UL 752-2006**" UL Standard for Safety for Bullet-Resisting Equipment Eleventh Edition", dated 11/28/12, listed and approved by UL Standard for Safety/ American National Standard.
(Submitted under NOA No. 05-1122.12)


Manuel Perez, P.E.
Product Control Examiner
NOA No. **16-0114.07**
Expiration Date: April 06, 2017
Approval Date: June 30, 2016

Hamilton Safe Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their “**Butacite® PVB Glass Interlayer**” dated 04/25/15, expiring on 12/11/16.

F. STATEMENTS

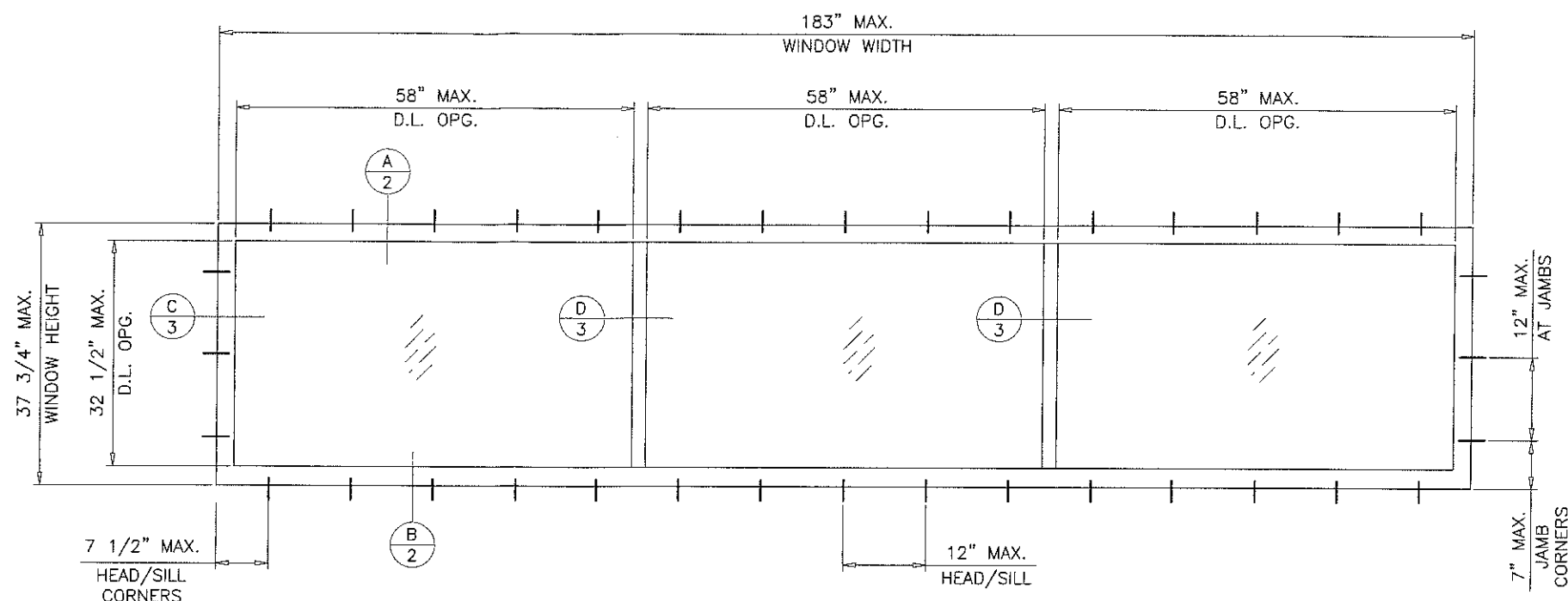
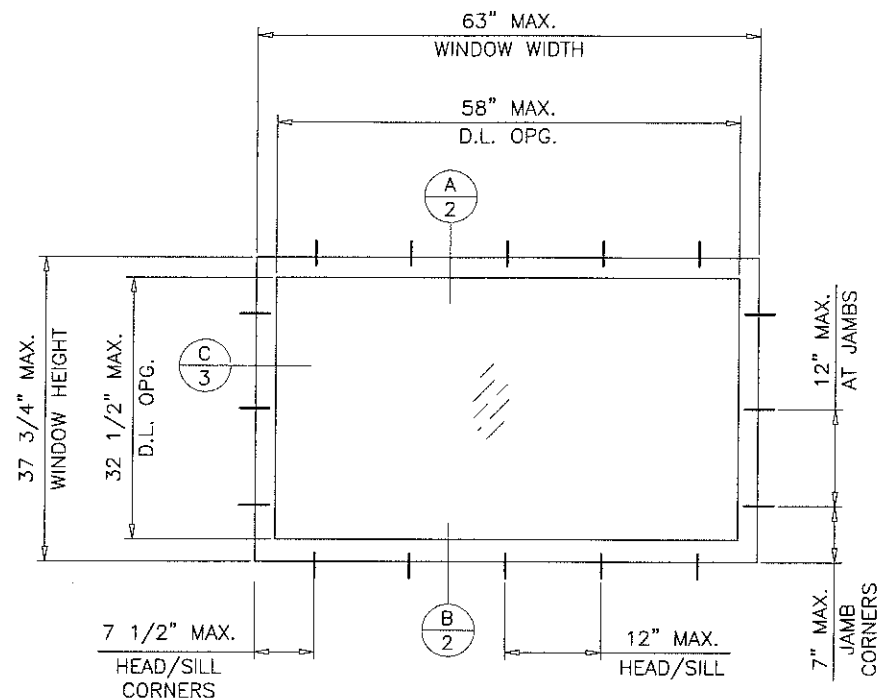
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated May 10, 2016, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letters for Test Report No. **FTL-4690**, issued by Fenestration Testing Laboratory, Inc., dated 08/18/05, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA No. 05-1122.12)
3. Letter from engineer requesting a 1-year extension to allow time to perform verification test, dated 05/10/16, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
4. Testing agreement letter, dated 05/24/16 between Fenestration Testing Laboratory (FTL) and Hamilton Safe, issued by FTL and signed by Leigh B. Sanchez.

G. OTHERS

1. Notice of Acceptance No. **12-0612.23**, issued to Hamilton Safe Company for their Series “**UL 752 Bullet Resistant Drive-Up**” Steel Fixed Window - L.M.I., approved on 12/06/12 and expiring on 04/06/16.
2. This is a one year approval, subjected to successful verification test.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0114.07

Expiration Date: April 06, 2017
Approval Date: June 30, 2016



TYPICAL ELEVATIONS

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

BULLET RESISTANT DRIVE-UP STEEL FIXED WINDOW

MAXIMUM DESIGN LOAD RATING = + 75.0 PSF
(FOR SIZES 3'H X 5'W TO 3'H X 15'W) - 80.0 PSF

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

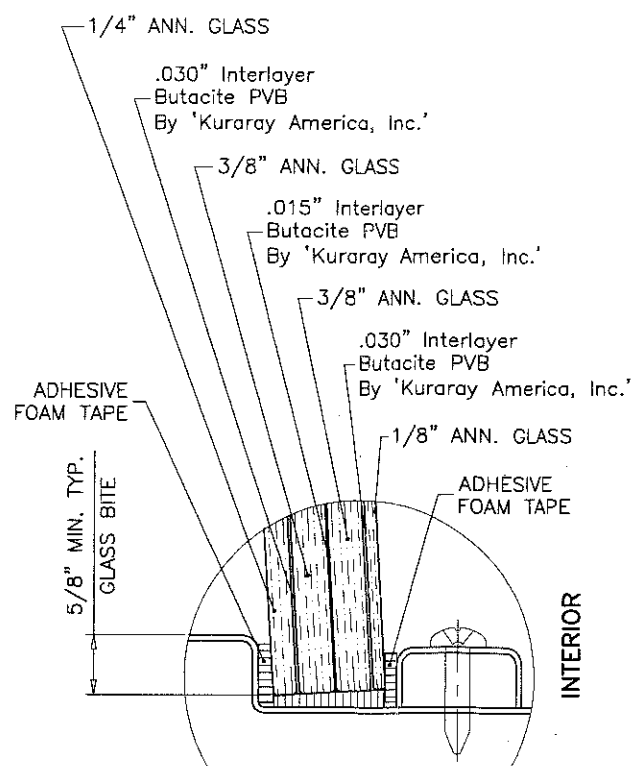
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

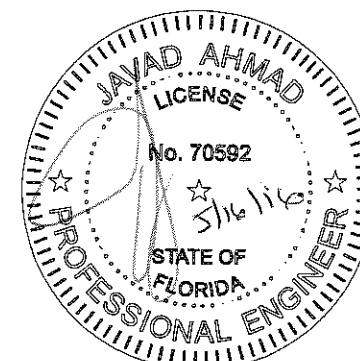
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE & ADOPTED STANDARDS.



GLAZING DETAIL

NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)

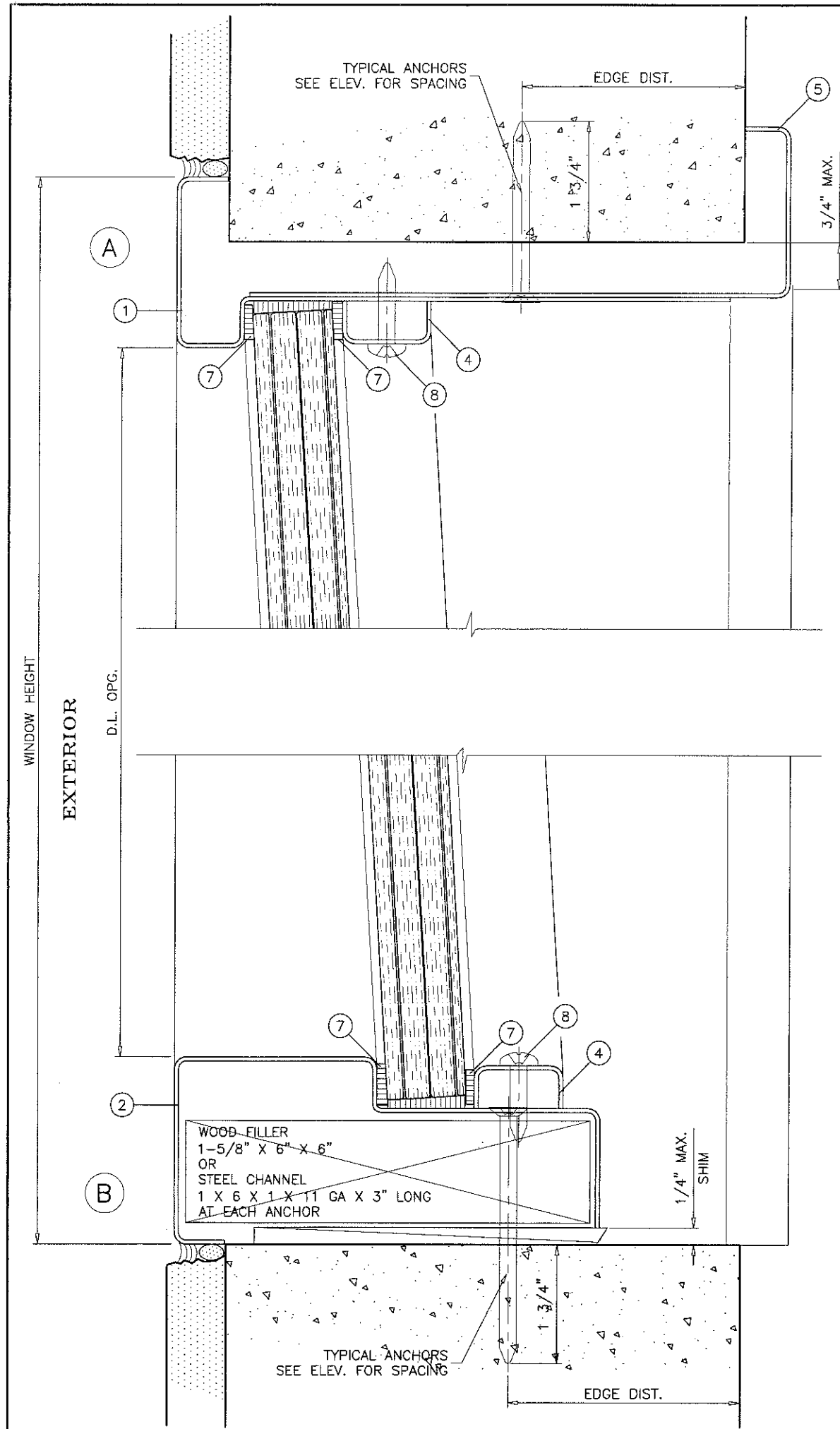
PRODUCT REVISED
as complying with the Florida
Building Code 16-014.07
Acceptance No.
Expiration Date April 6, 2017
By Manuel Perez
Miami Dade Product Control



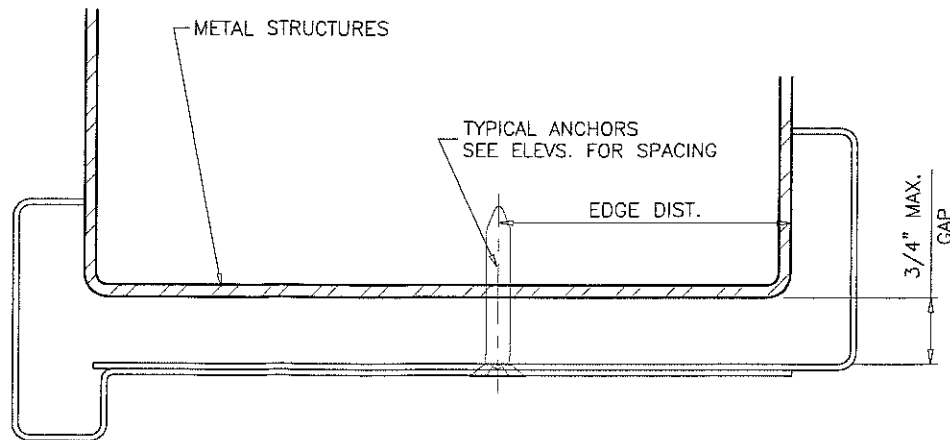
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL W05-47HS

BULLET RESISTANT DRIVE-UP STEEL FIXED WDW. (L.M.I.)
Hamilton Safe Company
7775 Cooper Road
Cincinnati, OH 45242
TEL. (513) 874-3733 FAX. (513) 874-3967

revisions:		no.	date	by	description
A	12.20.10				UPDATED TO 2007 FBC
B	06.08.12				UPDATED TO 2010 FBC
C	05.11.16				REV. PER RER COMMENTS
date:		09-16-05			
scale:		1/2" = 1'-0"			
dr. by:		HAMID			
chk. by:					
drawing no.		W05-47			
sheet		1 of 4			



WOOD BUCKS NOT BY HAMILTON SAFE., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

DIRECTLY INTO CONC. OR MASONRY
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

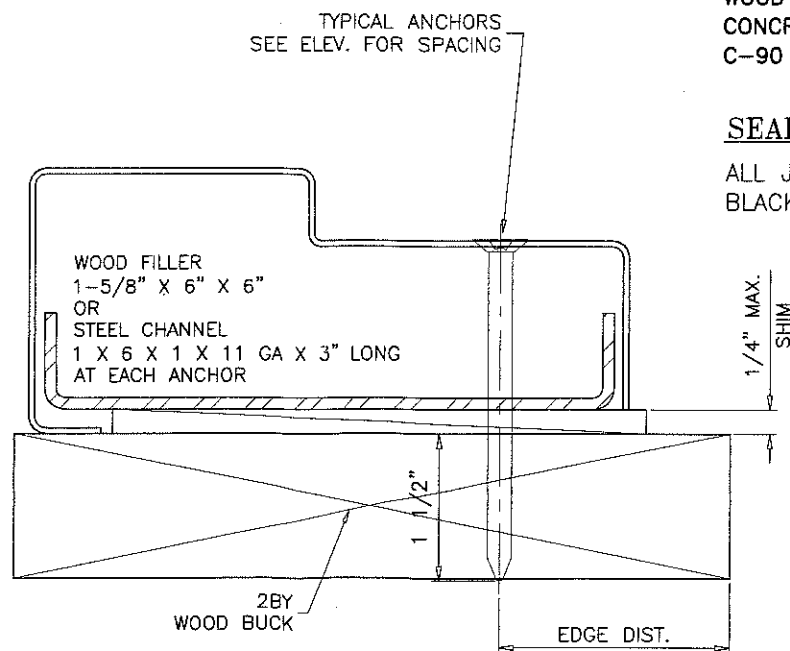
TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

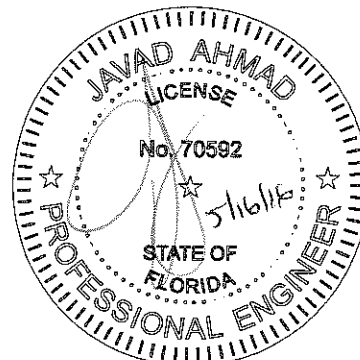
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH BLACK/ALUMINUM COLORED SILICONE.



PRODUCT REVISED
 as complying with the Florida
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 Miami Dade Product Control



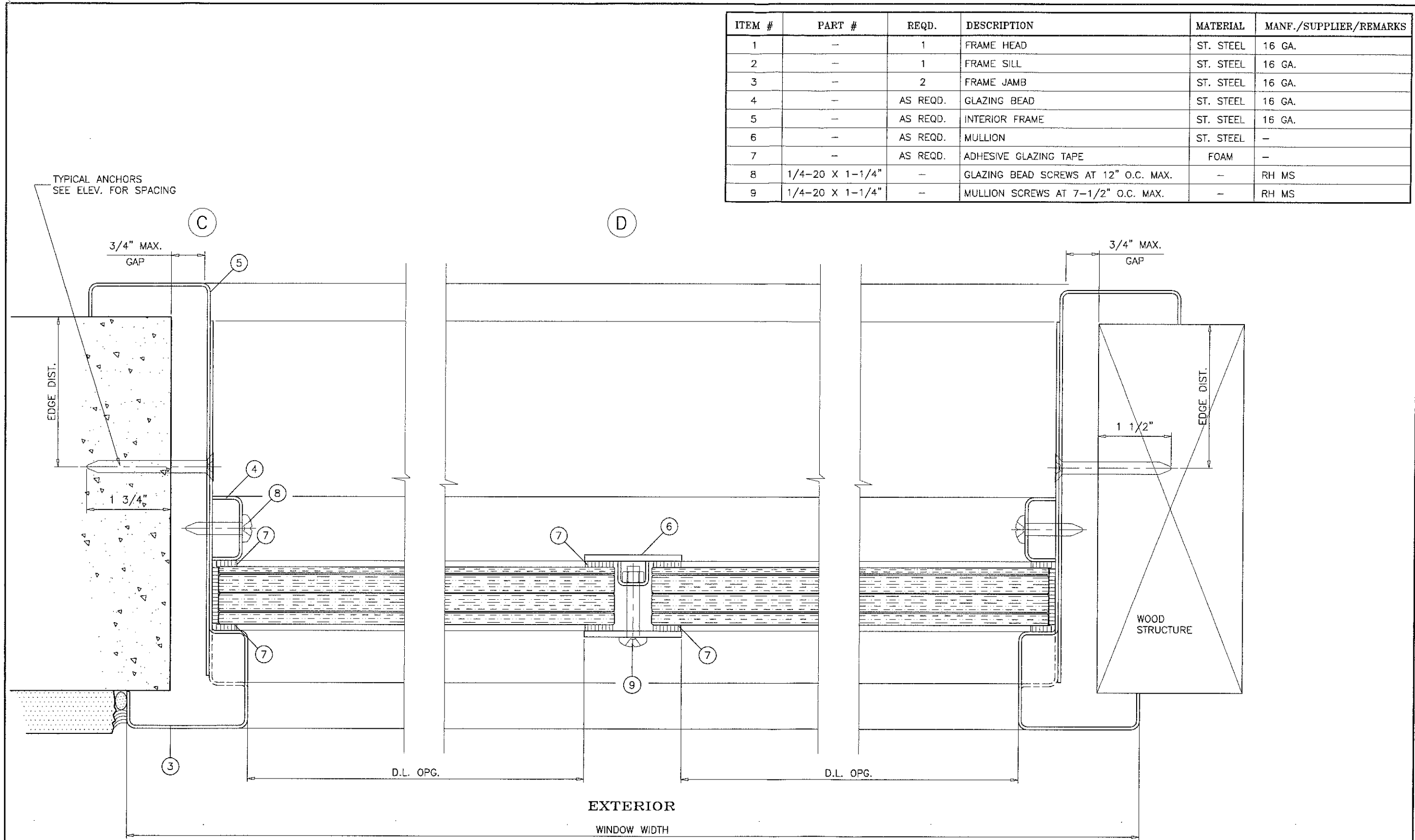
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revisions:		no	date	by	description
		A	12.20.10		ANCHORS REV.
		B	06.08.12		UPDATED TO 2010 FBC
		C	05.11.16		REV. PER RER COMMENTS

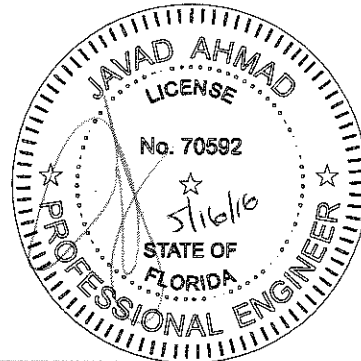
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drawing no.	W05-47
sheet	2 of 4



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	1	FRAME HEAD	ST. STEEL	16 GA.
2	—	1	FRAME SILL	ST. STEEL	16 GA.
3	—	2	FRAME JAMB	ST. STEEL	16 GA.
4	—	AS REQD.	GLAZING BEAD	ST. STEEL	16 GA.
5	—	AS REQD.	INTERIOR FRAME	ST. STEEL	16 GA.
6	—	AS REQD.	MULLION	ST. STEEL	—
7	—	AS REQD.	ADHESIVE GLAZING TAPE	FOAM	—
8	1/4-20 X 1-1/4"	—	GLAZING BEAD SCREWS AT 12" O.C. MAX.	—	RH MS
9	1/4-20 X 1-1/4"	—	MULLION SCREWS AT 7-1/2" O.C. MAX.	—	RH MS

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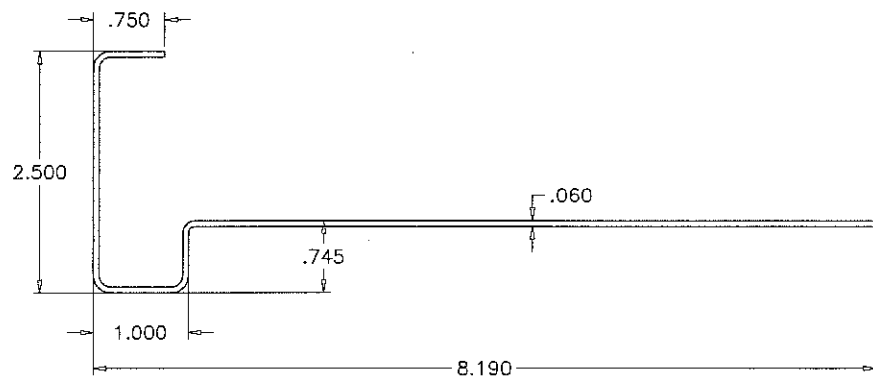
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revisions:

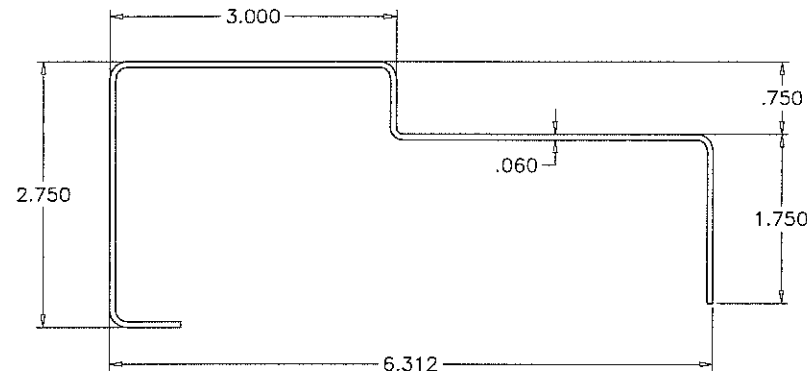
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B	06.08.12		STEEL GAUGE REV.
C	05.11.16		REV. PER RER COMMENTS

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dr. by: HAMID
chk. by:

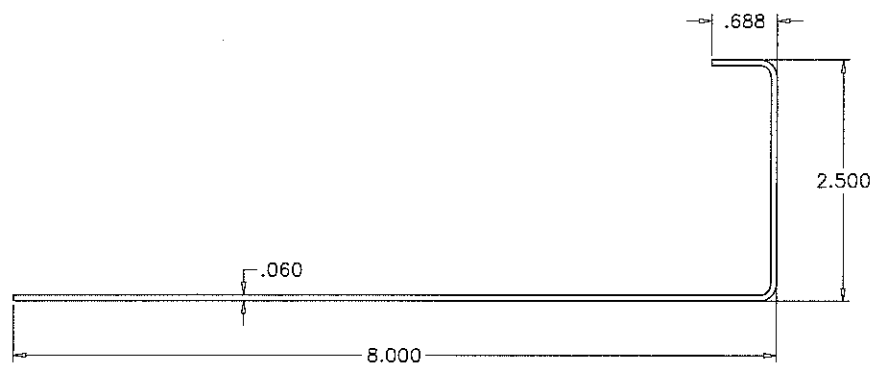
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W05-47
sheet 3 of 4



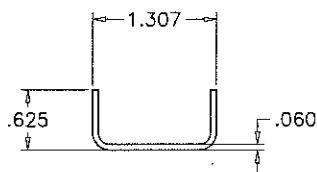
FRAME HEAD



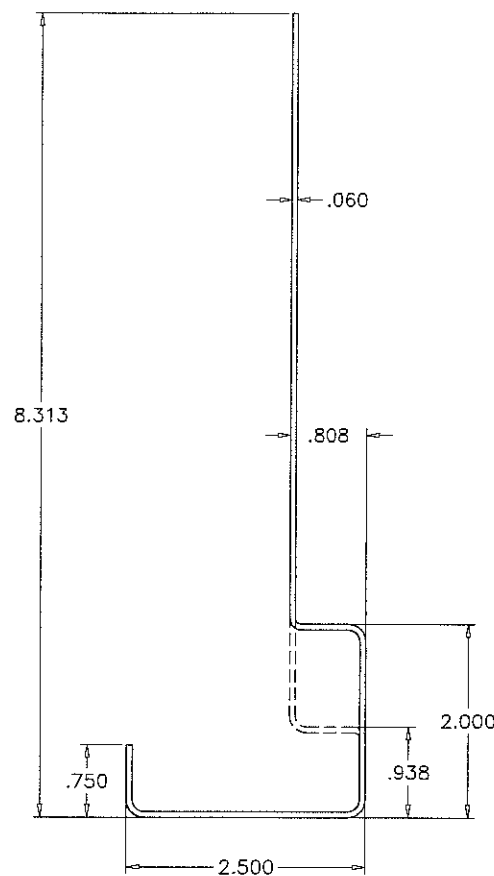
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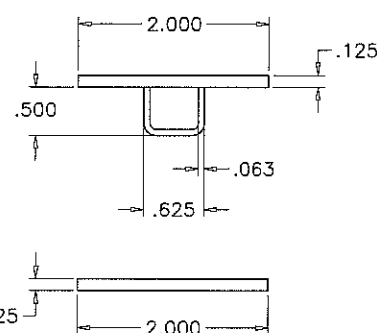
INTERIOR FRAME



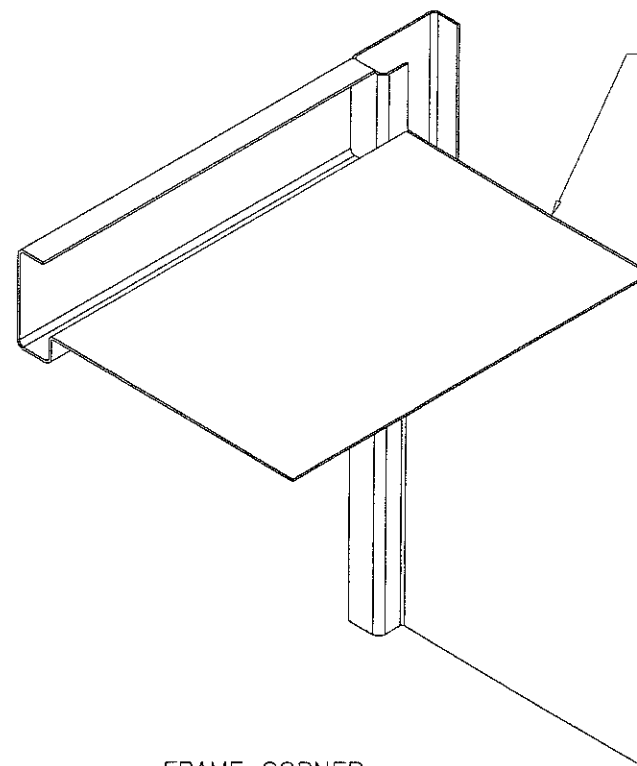
GLAZING BEAD



FRAME JAMB

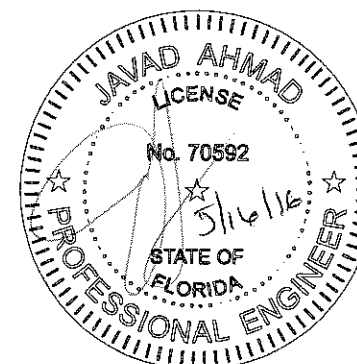


MULLION



FRAME CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-014.07
Expiration Date 12/16/2017
By *Muhammad Perez*
Miami Dade Product Control



afc

AL-FAROOQ CORPORATION
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date:	09-16-05
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dr. by:	HAMID
chk. by:	

drawing no.
W05-47

sheet 4 of 4